

Docket No.: 061352-0040



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	Customer Number: 20277
	:	
Takafumi KASHIWAGI, et al.	:	Confirmation Number: 5783
	:	
Application No.: 10/607,579	:	Group Art Unit: 2875
Patent No.: 6,871,974 B2	:	
	:	
Filed: June 27, 2003	:	Examiner: Mark Tsidulko
Issued: March 29, 2005	:	
	:	
For: LIGHTING UNIT LIQUID CRYSTAL DISPLAY DEVICE USING THE SAME		

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR 1.322

Mail Stop Box 4 / Certificate of Correction
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Certificate
JUL 01 2005
of Correction

Sir:

In reviewing the above-identified patent, a printing error was discovered therein requiring correction in order to conform the Official Record in the application.

The error noted is set forth on the attached copy of form PTO-1050 Rev. 2-93 in the manner required by the Commissioner's Notice.

Specifically, on the title page and at the top of Column 1, change the title from "LIGHTING UNIT AND LIQUID CRYSTAL DEVICE USING THE SAME" to -- LIGHTING UNIT AND LIQUID CRYSTAL **DISPLAY** DEVICE USING THE SAME --. The correct version of the title is shown on the attached copy of PTOL-85 submitted on February 15, 2005.

In addition, printed claims 1, 2 and 5 contain textual errors and need corrections as follows:
In Column 8, line 36, the phrase "and plurality of corner" should read -- and a plurality of corner --;

JUL 06 2005

Column 8, line 38, the phrase "the side surface a pair of" should read -- the side surface between a pair of --; Column 8, line 59, the word "strut" should read -- structure --. In Column 10, line 9, the word "respond" should be changed to -- correspond --. The correct text can be found in the attached copy of Applicant's Amendment filed November 15, 2004 with the correct versions highlighted.

The change requested herein occurred as a result of printing the Letters Patent and the Certificate should be issued without expense under Rule 322 of the Rules of Practice. Accordingly, Applicants request issuance of the Certificate of Correction.

Please charge any shortage in fees due in connection with the filing of this paper to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP


Michael E. Fogarty
Registration No. 36,139

**Please recognize our Customer No. 20277
as our correspondence address.**

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Date: June 29, 2005

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 6,871,974 B2

DATED : March 29, 2005

INVENTOR(S) : Takafumi KASHIWAGI, et al.

It is certified that error appears in the above-identified patent and that said Letter Patent is hereby corrected as shown below:

Title page, Item "(54)" and

Column 1, lines 1 and 2,

change title from "LIGHTING UNIT AND LIQUID CRYSTAL DEVICE USING THE SAME" to -- LIGHTING UNIT AND LIQUID CRYSTAL DISPLAY DEVICE USING THE SAME --;

IN THE CLAIMS:

Column 8, line 36, change "and plurality of corner" to -- and a plurality of corner --;

line 38, change "the side surface a pair of" to -- the side surface between a pair of --;

line 59, change "strut" to -- structure --;

Column 10, line 9, change "respond" to -- correspond --.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: MailMail Stop ISS ~~UE~~ FEE
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P.O. Box 1450
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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

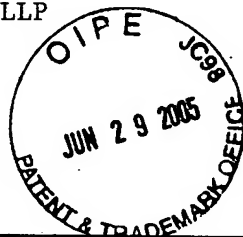
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

7590

12/27/2004

MCDERMOTT WILL & EMERY LLP
600 13th Street, N.W.
Washington, DC 20005-3096

CUSTOMER NO.: 20277



Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/607,579	06/27/2003	Takafumi Kashiwagi	61352-040	5783

TITLE OF INVENTION: LIGHTING UNIT AND LIQUID CRYSTAL DISPLAY DEVICE USING THE SAME

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$300	\$1700	03/28/2005

EXAMINER	ART UNIT	CLASS-SUBCLASS
TSIDULKO, MARK	2875	362-026000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 MCDERMOTT WILL &

2 EMERY LLP

3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

OSAKA, JAPAN

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are enclosed:

☒ Issue Fee☒ Publication Fee (No small entity discount permitted)☒ Advance Order - # of Copies Four

4b. Payment of Fee(s):

☐ A check in the amount of the fee(s) is enclosed.☐ Payment by credit card. Form PTO-2038 is attached.☒ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number 500417 (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27.☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above.

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature

Date 02/15/2005

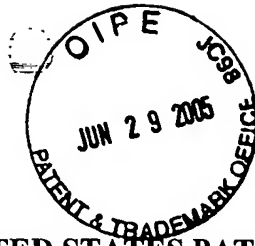
Typed or printed name

Michael E. FogartyRegistration No. 36,139

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Docket No.: 61352-040



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	:	Customer Number: 20277
Takafumi KASHIWAGI, et al.	:	Confirmation Number: 5783
Application No.: 10/607,579	:	Group Art Unit: 2875
Filed: June 27, 2003	:	Examiner: Mark Tsidulko
For: LIGHTING UNIT AND LIQUID CRYSTAL DISPLAY DEVICE USING THE SAME	:	

AMENDMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In response to the Office Action dated June 15, 2004, having a three-month shortened statutory period for response expired on September 15, 2004, and extended two additional months reconsideration of the above-identified application is respectfully requested in view of the following amendment and remarks.

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A lighting unit comprising:

a light guiding plate having a top surface and a bottom surface as a pair of principal surfaces, a plurality of side surfaces formed on outer peripheries of the principal surfaces, and a plurality of corner portions each of which is formed by intersecting adjacent two side surfaces of the plurality of side surfaces, the side surface between a pair of the corner portions forming a light incident face; and

a light source provided along the light incident face of the light guiding plate, the light source having both end portions forming non-light-emitting portions and a portion between the both end portions forming a light-emitting portion, respectively,

in which light emitted from the light source and incident on the light incident face of the light guiding plate emanates from the top surface of the light guiding plate, wherein

the light source is disposed such that the non-light-emitting portions correspond to the pair of the corner portions, respectively; and

at least one of the pair of corner portions of the light guiding plate has an inclined face [[in contact with]] formed so as to intersect the light incident face, the side surface adjacent to the light incident face, and [[at least one of]] the top surface, ~~and bottom surface, and inclined by an angle θ with respect to the top surface or the bottom surface, θ is larger than 90 degrees and smaller than 180 degrees~~ and to face obliquely upward.

2. (Original) The lighting unit according to Claim 1, wherein the inclined face of the light guiding plate has a light scattering structure for scattering light incident on the inclined face.

3-4. (Canceled)

5. (Currently Amended) The lighting unit according to Claim 1, wherein the inclined face of the light guiding plate is formed to further intersect ~~is in contact with the top surface and the~~ bottom surface of the light guiding plate.

6. (Currently Amended) A liquid crystal display device comprising:
a lighting unit; and
a liquid crystal panel disposed on a light emanating side of the lighting unit and having a pair of substrates with liquid crystal interposed therebetween,
the lighting unit including:

a light guiding plate having a top surface and a bottom surface as a pair of principal surfaces, a plurality of side surfaces formed on outer peripheries of the principal surfaces, and a plurality of corner portions each of which is formed by intersecting adjacent two side surfaces of the plurality of side surfaces, the side surface between a pair of the corner portions forming a light incident face; and

a light source provided along the light incident face of the light guiding plate, the light source having both end portions forming non-light-emitting portions and a portion between the both end portions forming a light-emitting portion, respectively;

in which light emitted from the light source and incident on the light incident face of the light guiding plate emanates from the top surface of the light guiding plate, wherein

the light source is disposed such that the non-light-emitting portions correspond to the pair of the corner portions, respectively; and

5 at least one of the pair of corner portions of the light guiding plate has an inclined face ~~[[in contact with]]~~ formed so as to intersect the light incident face, the side surface adjacent to the light incident face, ~~[[and at least one of]]~~ and the top surface, ~~and bottom surface, and inclined by an angle θ with respect to the top surface or the bottom surface, θ is larger than 90 degrees and smaller than 180 degrees~~ and to face obliquely upward.

4 7. (New) The lighting unit according to Claim 1, wherein the inclined face is bent so as to have a bend line extending in a horizontal direction, and each portion of the inclined face obtained by dividing the inclined face by the bend line is formed so as to face obliquely upward.

REMARKS

Claims 1 and 3-6 stand rejected under 35 U.S.C. § 102 as being anticipated by Ono et al. '281 ("Ono"), and claim 2 stands rejected under 35 U.S.C. § 103 as being unpatentable over Ono. These rejections are respectfully traversed for the following reasons.

Claims 1 and 6 each recites in pertinent part, "at least one of the pair of corner portions of the light guiding plate has an inclined face formed so as to intersect the light incident face, the side surface adjacent to the light incident face, and the top surface, and to face obliquely *upward*" (emphasis added). According to one aspect of the present invention as now recited in claims 1 and 6, light emitted from the light source, incident on the light guiding plate, and reflected by the inclined face of the light guiding plate can be reflected by the bottom surface of the light guiding plate, and can emanate from the top surface of the light guiding plate, thereby enabling the elimination of dark portions. In contrast, Ono discloses only corner portions which face obliquely *downward*. Ono does not disclose or suggest, *inter alia*, the above-emphasized feature, let alone in the particular combination of elements defined in claims 1 and 6.

As anticipation under 35 U.S.C. § 102 requires that each and every element of the claim be disclosed, either expressly or inherently (noting that "inherency may not be established by probabilities or possibilities", *Scaltech Inc. v. Retec/Tetra*, 178 F.3d 1378 (Fed. Cir. 1999)), in a single prior art reference, *Akzo N.V. v. U.S. Int'l Trade Commission*, 808 F.2d 1471 (Fed. Cir. 1986), based on the forgoing, it is submitted that Ono does not anticipate claims 1 and 6, nor any claim dependent thereon.

The Examiner is directed to MPEP § 2143.03 under the section entitled "All Claim Limitations Must Be Taught or Suggested", which sets forth the applicable standard:

To establish *prima facie* obviousness of a claimed invention, all the claim limitations must be taught or suggested by the prior art. (citing *In re Royka*, 180 USPQ 580 (CCPA 1974)).

In the instant case, the pending rejection does not "establish *prima facie* obviousness of [the] claimed invention" as recited in claim 2 because the proposed modification fails the "all the claim limitations" standard required under § 103.

Under Federal Circuit guidelines, a dependent claim is nonobvious if the independent claim upon which it depends is allowable because all the limitations of the independent claim are contained in the dependent claims, *Hartness International Inc. v. Simplimatic Engineering Co.*, 819 F.2d at 1100, 1108 (Fed. Cir. 1987). Accordingly, as claims 1 and 6 are patentable for the reasons set forth above, it is respectfully submitted that all claims dependent thereon are also patentable. In addition, it is respectfully submitted that the dependent claims are patentable based on their own merits by adding novel and non-obvious features to the combination.

Based on the foregoing, it is respectfully submitted that all pending claims are patentable over the cited prior art. Accordingly, it is respectfully requested that the rejections under 35 U.S.C. § 102 and 103 be withdrawn.

CONCLUSION

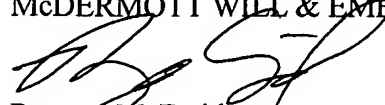
Having fully and completely responded to the Office Action, Applicants submit that all of the claims are now in condition for allowance, an indication of which is respectfully solicited. If there are any outstanding issues that might be resolved by an interview or an Examiner's amendment, the Examiner is requested to call Applicants' attorney at the telephone number shown below.

Application No.: 10/607,579

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 500417 and please credit any excess fees to such deposit account.

Respectfully submitted,

McDERMOTT WILL & EMERY LLP



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